REMARKS

This Response is submitted in reply to the non-final Office Action mailed on September 26, 2008. A petition for a two-month extension of time is submitted herewith. The Director is authorized to charge \$490.00 for the petition for a one-month extension of time and any additional fees that may be required, or to credit any overpayment to Deposit Account No. 02-1818. If such a withdrawal is made, please indicate the Attorney Docket No. 112701-607 on the account statement.

Claims 1-31 are pending in this application. Claims 3 and 18 were previously withdrawn. In the Office Action, Claims 1-2, 4-17 and 19-31 are rejected under 35 U.S.C. §103. Applicants believe that the rejection is improper and respectfully traverse it for at least the reasons set forth below.

In the Office Action, Claims 1-2, 6, 8, 10, 15, 17, 21-23 and 29 are rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 6,953,592 to Darbyshire et al. ("Darbyshire") in view of U.S. Patent No. 3,121,635 to Eldred ("Eldred") and FR 1 600 708 ("FR '708"). Claims 11-14, 24-28 and 30-31 are rejected under 35 U.S.C. §103(a) as being unpatentable over Darbyshire in view of Eldred, FR '708 and GB 413,488 to Neale ("Neale"). Claims 4 and 19 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Darbyshire in view of Eldred, FR '708 and CA 964074 to Ehrgott et al. ("Ehrgott"). Claims 5, 7, 9 and 20-23 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Darbyshire in view of Eldred, FR '708, Ehrgott and U.S. Patent No. 2,224,942 to Weisman ("Weisman"). Applicants respectfully submit that the cited references are deficient with respect to the present claims.

Independent Claims 1 and 11 recite, at least in part, coffee tablets having an internal pore structure wherein a majority of the pores in the <u>internal pore structure are interconnected and have a size of between 5 and 50 micrometers</u>. Independent Claim 15 recites, in part, methods for forming coffee tablets having an internal pore structure wherein a majority of the pores in the <u>internal pore structure are interconnected and have a size of between 5 and 50 micrometers</u>, the methods comprising the step of <u>molding a coffee composition that contains coffee solids while adding a gas thereto</u>. Applicants have surprisingly found that coffee tablets formed according to the present invention with close surface properties and internal pore structures have desirable

smooth outer surfaces, sufficient strengths to prevent easy breakage and provide acceptable solubility. See, specification, page 6, lines 1-5. To prepare coffee tablets of the present invention, a gas is added to a coffee composition before the coffee composition is frozen in a mold. Specifically, a coffee composition that contains coffee solids may be molded in a mold while adding a gas thereto to form a coffee tablet having a three-dimensional shape that conforms to that of the mold and that has a smooth and/or shiny outer surface and a closed surface pore structure. See, specification, page 6, lines 17-25. The resulting pore structure enables the tablet to dissolve rapidly in hot water without the need for any excessive stirring or other agitation. At the same time, the closed surface pore structure provides for a coffee tablet a certain contribution to the mechanical strength of the particle/tablet and its resistance to breakage attrition. See, specification, page 8, lines 7-17. In contrast, Applicants respectfully submit that the cited references fail to disclose each and every element of the present claims. Applicants also submit that the skilled artisan would have no reason to combine the cited references to arrive at the present claims because the cited references teach away from each other.

Darbyshire, Eldred and FR '708 all fail to disclose or suggest coffee tablets having an internal pore structure wherein a majority of the pores in the internal pore structure are interconnected and have a size of between 5 and 50 micrometers as required, in part, by the present claims. The Patent Office even admits that Darbyshire and Eldred fail to disclose or suggest the size of the internal pores of the present coffee tablet. See, Office Action, page 3, lines 6-16. FR '708 fails to remedy the deficiencies of Darbyshire and Eldred because FR '708 fails to even mention or disclose a pore size. Darbyshire, Eldred and FR '708 also fail to disclose or suggest methods for forming coffee tablets, the methods comprising the step of molding a coffee composition that contains coffee solids while adding a gas thereto. In fact, the Patent Office has not even addressed the claimed method step of molding a coffee composition that contains coffee solids while adding a gas thereto as is required, in part, by Claim 15, nor has the Patent Office cited to any disclosure in any of the cited references even suggesting same.

Darbyshire discloses tablets made of a carbohydrate material. The tablets may be produced from a particulate base material that is compacted to form a tablet. The enclosure of pressurized gas is, for example, achieved by treating a porous powder or the finished tablet with pressure under elevated temperature. See, Darbyshire, col. 4, lines 25-28. As is illustrated in

Figure 1a of *Darbyshire*, the individual powder particles of which the tablets are formed retain their structure and are bonded together at the contact points. The porosity of the tablet is, therefore, mainly formed by the interstitial voids between the individual particles. *Darbyshire* does not disclose pore size of the tablets, but does disclose sizes of individual particles between 0.4 and 0.9 mm, as is detailed in Example 1. This particle size will result in interstitial voids considerably larger than the 5 to 50 microns of the present claims. *Darbyshire* is directed to solving the problem of providing a tablet with good solubility by inclusion of gas under pressure in closed voids of the tablet. In contrast, the coffee tablets of the present invention may be produced with unique internal pore structures and without the addition of an extensive pressure treatment step under high temperature, as is required by *Darbyshire*.

Eldred discloses the formation of tablets from a basic powder, a spray dried instant coffee. The tablets are formed by moisturizing the spray dried powder with a small amount of water in a liquid carrier wherein the coffee powder is insoluble and then compacting the powder. The purpose of Eldred is to make the coffee powder particles stick without becoming a solid cake-like mass and losing their individual structure. See, Eldred, col. 2, lines 14-26 and lines 40-44. The pore size is not mentioned in Eldred. However, the structure of the tablets is composed of the individual particles retaining their internal structure and bonded at the contact points. See, Eldred, col. 6, lines 63-68. Therefore, the tablets of Eldred will have a larger pore size than what is required by the present claims. The coffee tablets of the present claims are produced by a very different process, which results in a very different internal pore structure and different properties (e.g., with respect to the balance between mechanical strength and solubility).

While the Patent Office admits that neither *Darbyshire* nor *Eldred* discloses the presently claimed pore size, the Patent Office asserts that the claimed pore size "would have been well within the purview of one skilled in the art" and would have been obvious through "routine experimental optimization." See, Office Action, page 3, lines 6-16. Applicants respectfully disagree, however, and submit that the pore size of about 50 microns is a result of the method used to produce the coffee tablets. For example, as discussed above, the particle sizes of the products of at least *Darbyshire* would be too large to allow for the presently claimed pore size. Additionally, because the structures of *Eldred* are composed of individual particles retaining their structure and bonded at the contact points, the structures of *Eldred* would also

have a larger pore size than is presently claimed. As such, Applicants respectfully submit that the presently claimed pore size would not have been "obvious" in view of the presently cited references, as is alleged by the Patent Office.

The processes of *Darbyshire* and *Eldred* are very different than the process by which the present claims are produced. As discussed above, the interconnected internal pores of the present coffee tablets are formed by a process wherein a gas is injected into a partially frozen coffee composition during molding. This unique process results in a specific internal pore structure that allows for sufficient structural integrity of the tablet while also allowing the tablet to dissolve sufficiently. None of the cited references even suggests a process wherein coffee tablets may be formed by injecting a gas into a partially frozen coffee composition during molding. Indeed, the Patent Office has failed to even cite any disclosure in any of the references suggesting same.

With respect to the remaining rejections, Applicants respectfully submit that Neale, Ehrgott and Weisman all fail to remedy the deficiencies of Darbyshire, Eldred and FR '708. The Patent Office cites Neale solely for the disclosure of packaging coffee tablets in certain materials and the use of flexible laminate and/or paper as a packaging material. See, Office Action, page 4, lines 2-18. The Patent Office cites Ehrgott solely for the disclosure of the preparation of a coffee tablet by using a semi-solid slush step followed by full freezing. See, Office Action, page 5, lines 1-3. The Patent Office also cites Weisman solely for the disclosure of coating coffee granules with coffee extract to protect the flavor and prevent oxidation without expensive packaging. See, Office Action, page 5, lines 8-11. Applicants respectfully submit that the cited references fail to even mention the unexpected benefits of the presently claimed internal pore structure obtained by the presently claimed method involving injecting a gas into a coffee composition during molding. For at least the above-mentioned reasons, Applicants respectfully submit that the cited references fail to disclose each and every element of the present claims.

Accordingly, Applicants respectfully request that the obviousness rejection of Claims 1-2, 4-17 and 19-31 under 35 U.S.C. §103(a) be reconsidered and withdrawn.

Appl. No. 10/530,998 Response to Non-Final Office Action dated 9/26/08

For the foregoing reasons, Applicants respectfully request reconsideration of the aboveidentified patent application and earnestly solicit an early allowance of same. In the event there remains any impediment to allowance of the claims that could be clarified in a telephonic interview, the Patent Office is respectfully requested to initiate such an interview with the undersigned.

Respectfully submitted,

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Dated: February 20, 2009